

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Currently Amended) An apparatus for use with a subsea well, comprising:
2 a carrier line spool having a carrier line that is adapted to be positioned
3 underwater; and
4 a stack in a structure separate from the carrier line spool, the stack adapted to
5 operatively couple to subsea wellhead equipment, and the carrier line attached to the stack, the
6 stack having equipment to lower the carrier line into the subsea well.

1 2. (Original) The apparatus of claim 1, wherein the carrier line spool comprises a
2 coiled tubing spool.

1 3. (Original) The apparatus of claim 1, wherein the carrier line spool is selected
2 from the group consisting of a wireline spool and slickline spool.

1 4. (Original) The apparatus of claim 1, wherein the carrier line spool is adapted to
2 be positioned on the sea floor separate from the stack.

1 5. (Currently Amended) The apparatus of claim 1, wherein the carrier line spool
2 comprises a coiled tubing spool, ~~the apparatus further comprising wherein the equipment to~~
3 lower the carrier line into the subsea well comprises an injector head adapted to drive coiled
4 tubing from the coiled tubing spool.

1 6. (Cancelled)

1 7. (Currently Amended) The apparatus of claim [[6]] 5, wherein the stack further
2 comprises a gooseneck to provide support for coiled tubing reeled from the coiled tubing spool.

1 8. (Original) The apparatus of claim 5, further comprising at least one buoyancy
2 tank attached to an assembly containing the injector head.

1 9. (Currently Amended) The apparatus of claim 1, further comprising a carousel
2 containing a plurality of intervention tools, the intervention tools engageable by the carrier line.

1 10. (Original) The apparatus of claim 9, wherein the carousel is rotatable underwater
2 to enable switching of tools for connection to the carrier line.

1 11. (Original) The apparatus of claim 1, wherein the stack contains an emergency
2 disconnect package.

1 12. (Original) The apparatus of claim 11, further comprising a connector connected
2 between the emergency disconnect package and the subsea wellhead equipment.

1 13. – 14. (Cancelled)

1 15. (Previously Presented) An apparatus for use with a subsea well, comprising:
2 a carrier line spool having a carrier line that is adapted to be positioned
3 underwater and to be operatively coupled to intervention equipment attached to subsea wellhead
4 equipment; and
5 an underwater marine unit adapted to operatively couple the carrier line to the
6 intervention equipment attached to the subsea wellhead equipment in response to wireless
7 signals.

1 16. (Original) The apparatus of claim 15, wherein the wireless signals comprise
2 acoustic wave signals.

1 17. (Currently Amended) A method of intervention with a subsea well, comprising:

2 positioning a carrier line spool underwater;

3 attaching a stack to subsea wellhead equipment, the stack in a structure separately
4 located from the carrier line spool; [[and]]

5 deploying a carrier line of the carrier line spool into the stack; and

6 lowering the carrier line into the subsea well.

1 18. (Previously Presented) The method of claim 17, wherein deploying the carrier

2 line comprises deploying the carrier line through an injector head in the stack.

1 19. (Previously Presented) The method of claim 18, wherein deploying the carrier

2 line comprises deploying the carrier line through a gooseneck to the injector head.

1 20. (Currently Amended) The method of claim 17, ~~further comprising lowering~~

2 wherein the carrier line is lowered into the subsea well to perform an intervention operation.

1 21. (Original) The method of claim 20, further comprising raising the carrier line

2 after the intervention operation is completed and switching tools connected to the carrier line.

1 22. (Original) The method of claim 21, wherein switching tools comprises actuating

2 a carousel system having chambers containing a plurality of tools.

1 23. (Original) The method of claim 22, further comprising engaging the carrier line

2 with another tool after actuating the carousel system.

1 24. (Currently Amended) A method of intervention with a subsea well, comprising:
2 positioning a carrier line spool underwater;
3 attaching a stack to subsea wellhead equipment, the stack in a structure separately
4 located from the carrier line spool;
5 coupling a carrier line of the carrier line spool to the stack; [[and]]
6 attaching intervention equipment separate from the carrier line to the subsea
7 wellhead equipment; and
8 lowering the carrier line into the subsea well using the intervention equipment.

1 25. (Previously Presented) The method of claim 17, further comprising using an
2 underwater marine unit to deploy the carrier line into the stack.

1 26. (Original) The method of claim 17, further comprising lowering, using an
2 underwater marine unit, the carrier line spool to a position on a sea floor.

1 27. (Original) The method of claim 26, further comprising attaching buoyancy tanks
2 to the carrier line spool to enable the underwater marine unit to carry the carrier line spool
3 underwater.

1 28. (Cancelled)

1 29. (Previously Presented) A method of intervention with a subsea well, comprising:
2 positioning a carrier line spool underwater;
3 using an underwater marine unit to couple a carrier line of the carrier line spool to
4 subsea intervention equipment; and
5 communicating commands to the underwater marine unit using wireless signals to
6 control the coupling of the carrier line to the subsea intervention equipment.

1 30. (Original) A subsea intervention method for use with subsea wellhead equipment,
2 comprising:
3 assembling modules containing intervention equipment; and
4 connecting, using an underwater marine unit, the assembled intervention
5 equipment to the subsea wellhead equipment; and
6 attaching one or more buoyancy tanks to at least one of the modules.

1 31. (Original) The method of claim 30, further comprising attaching one or more
2 buoyancy tanks to the assembled intervention equipment.

1 32. (Original) The method of claim 30, wherein assembling the modules comprises
2 assembling a carrier line spool as part of the intervention equipment.

1 33. (Previously Presented) The apparatus of claim 1, further comprising an
2 underwater marine unit to attach intervention equipment separate from the carrier line to the
3 subsea wellhead equipment, the intervention equipment comprising the stack.

1 34. (Previously Presented) The apparatus of claim 33, wherein the stack comprises a
2 frame.

1 35. (Previously Presented) The method of claim 24, wherein the intervention
2 equipment includes the stack.